

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/051092

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B26B19/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B26B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 560 875 B1 (EICHHORN REINHOLD ET AL) 13 May 2003 (2003-05-13) column 4, line 44 – line 59; figure 2 column 5, line 35 – line 59; figure 5 -----	1
A	US 6 505 404 B2 (ULLMANN ROLAND) 14 January 2003 (2003-01-14) abstract; figures 1-7 -----	1
A	US 4 922 608 A (PAHL DIETRICH) 8 May 1990 (1990-05-08) cited in the application column 3, line 55 – column 7, line 65; figures 1-7 ----- -/-	1

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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Date of the actual completion of the International search

28 October 2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,A	EP 1 366 870 A (IZUMI PROD CO) 3 December 2003 (2003-12-03) paragraph '0009! - paragraph '0033!; claim 1; figures 1-12 -----	1
A	EP 0 721 824 A (IZUMI PROD CO) 17 July 1996 (1996-07-17) column 3, line 19 - column 8, line 25; figures 1,2 -----	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2004/051092

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 6560875	B1	13-05-2003	DE AT AU CN DE WO EP JP US	19832473 C1 217239 T 4778599 A 1112985 B 59901406 D1 0005040 A1 1098739 A1 2002521104 T 2002020066 A1	30-03-2000 15-05-2002 14-02-2000 02-07-2003 13-06-2002 03-02-2000 16-05-2001 16-07-2002 21-02-2002
US 6505404	B2	04-07-2002	DE AT AU CN DE WO EP JP US	19939509 A1 258842 T 6833300 A 1370103 T 50005220 D1 0114107 A1 1204512 A1 2003507145 T 2002083595 A1	01-03-2001 15-02-2004 19-03-2001 18-09-2002 11-03-2004 01-03-2001 15-05-2002 25-02-2003 04-07-2002
US 4922608	A	08-05-1990	DE AT DE EP HK JP JP KR SG	3721243 A1 53785 T 3860113 D1 0297300 A1 46991 A 1022279 A 2555155 B2 9300832 B1 40991 G	12-01-1989 15-06-1990 07-06-1990 04-01-1989 21-06-1991 25-01-1989 20-11-1996 06-02-1993 26-07-1991
EP 1366870	A	03-12-2003	JP CA CN EP US	2003340178 A 2429965 A1 1472049 A 1366870 A1 2003221318 A1	02-12-2003 29-11-2003 04-02-2004 03-12-2003 04-12-2003
EP 0721824	A	17-07-1996	JP AT CA DE DE EP US	8187373 A 193854 T 2164396 A1 69517497 D1 69517497 T2 0721824 A2 5564191 A	23-07-1996 15-06-2000 12-07-1996 20-07-2000 08-02-2001 17-07-1996 15-10-1996